

## **7<sup>th</sup> Avenue and Bethany Home Road**

### **Boundaries:**

The site is bounded approximately to the north by Berridge Lane, to the south by Bethany Home Road, to the east by 6<sup>th</sup> Avenue and to the west by 8th Avenue.

### **Site History:**

- The 7<sup>th</sup> Avenue and Bethany Home Road site was placed on the WQARF Registry in August 2004 due to the detection of tetrachloroethene (PCE) in the soil and groundwater. Concentrations were found to be as high as 15,000 parts per billion (ppb) in groundwater beneath the northeast corner of 7<sup>th</sup> Avenue and Bethany Home Road (Site). The aquifer water quality standard for PCE is 5 ppb. The eligibility and evaluation (E&E) score for placement on the WQARF Registry was 29 out of 120.
- The site property was originally developed in 1952 into a small shopping center which included a market, a variety of commercial shops, and a dry cleaning facility. The dry cleaning facility began operation in 1953 at the shopping center. Between 1952 and 1960, the shopping center was connected to an on-site septic system. In 1960, the shopping center was connected to the Phoenix sewer system and discharge to the septic system is believed to have terminated.
- Three previous site investigations by outside parties have taken place at the site between 1995 and 2001, and the results of these investigations confirmed the presence of PCE contamination in soil and groundwater beneath the site.
- ADEQ initiated an early response action (ERA) evaluation on the site October 2004 to collect data necessary to characterize the source area of PCE contamination below the Site. The ERA evaluation consisted of drilling ten soil borings and installation of five soil vapor extraction wells and two groundwater monitor wells at the Site.
- Based on the results of this investigation, a soil vapor extraction (SVE) system was designed and constructed at the site. Operation of the SVE system began in June 2005 and as of October 31, 2005, over 300 pounds of PCE were removed from the subsurface soils.
- Three off-site groundwater monitor wells were installed in September 2005 to define the extent of groundwater contamination.

### **Site Status:**

- The SVE system will continue until the remedial goals have been achieved.
- Based on the sampling results from the additional monitor wells installed in September

2005, a decision will be made on whether installation of additional wells is required.

- Groundwater monitoring is being conducted on a quarterly basis.
- A remedial investigation has not been initiated at the site.

#### **Site Hydrogeology:**

The depth to groundwater in the area is approximately 85 feet below ground surface (bgs). Groundwater flow in the site area is currently to the northeast.

#### **Contaminants:**

- The current contaminants of concern in groundwater include tetrachloroethene (PCE) and trichloroethene (TCE). Contaminants of concern at the site may change as new data become available.
- Other contaminants from off-site underground storage tank releases include: 1,2-dichloroethane (1,2-DCA) and methyl tertiary butyl ether (MTBE).

#### **Public Health Impact:**

There is no known public health impact to drinking water because there are no known drinking water wells within site boundaries.

#### **Community Involvement Activities:**

Since the remedial investigation phase of the project has not been initiated, a community advisory board has not been formed for this site

#### **Information Repository:**

Interested parties can review site information at the ADEQ main office located at 1110 West Washington Street, Phoenix. With 24 hour notice, an appointment to review relating documentation is available Monday through Friday from 8:30 a.m. to 4:30 p.m., at the ADEQ Records Management Center, 1110 W. Washington Street in Phoenix, Arizona. Please contact (602) 771-4380 or (800) 234-5677 to schedule an appointment to review these documents.

#### **Contacts:**

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\*In Arizona, but outside the Phoenix area, call toll-free at (800) 234-5677.